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|   |                 |   |                             |                          |          |                            |
|---|-----------------|---|-----------------------------|--------------------------|----------|----------------------------|
| INFORMATION DISCLOSURE CITATION<br>(Use several sheets if necessary)  |                 |   | ATTY DOCKET NO.<br>ELZK-004 | SERIAL NO.<br>09/815,726 |          |                            |
|   |                 |   | John Kroeker et al.         |                          |          |                            |
| FILING<br>March 23, 2001  |                 |   | GROUP<br>2661               |                          |          |                            |
| U.S. PATENT DOCUMENTS   |                 |   |                             |                          |          |                            |
| *EXAMINER INITIAL   | DOCUMENT NUMBER | DATE  | NAME                        | CLASS                    | SUBCLASS | FILING DATE IF APPROPRIATE |
| MAS   | 5,027,408       | 6/25/91   | Kroeker et al.              |                          |          |                            |
|   | 5,168,524       | 12/1/92   | Kroeker et al.              |                          |          | RECEIVED SEP 06 2001       |
|   | 5,369,726       | 11/29/94  | Kroeker et al.              |                          |          | Technology Center 2000     |
|   | 6,052,682       | 4/18/00   | Miller et al.               |                          |          |                            |
|   | 5,799,276       | 8/25/98   | Komissarchik et al.         |                          |          |                            |
|   | 5,822,728       | 10/13/98  | Applebaum et al.            |                          |          | RECEIVED SEP 10 2001       |
|   | 5,822,729       | 10/13/98  | Glass et al.                |                          |          |                            |
|   | 5,825,977       | 10/20/98  | Morin et al.                |                          |          | Technology Center 2100     |
|   | 5,835,890       | 11/10/98  | Matsui et al.               |                          |          |                            |
|   | 5,647,002       | 7/8/97  | Brunson                     |                          |          |                            |
| MAS   | 5,659,542       | 8/19/97   | Bell et al.                 |                          |          |                            |
| FOREIGN PATENT DOCUMENTS  |                 |   |                             |                          |          |                            |
|   | DOCUMENT NUMBER | DATE  | COUNTRY                     | CLASS                    | SUBCLASS | TRANSLATION<br>YES      NO |
|   |                 |   |                             |                          |          |                            |
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|   |                 |   |                             |                          |          |                            |
|   |                 |   |                             |                          |          |                            |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |                 |   |                             |                          |          |                            |
| MAS   |                 | Makhoul, J. and R. Schwartz, State of the art continuous speech recognition, Proc. Natl. Acad. Sci. USA, Vol. 92, pp. 9956-9963, 1995 |                             |                          |          |                            |
| MAS   |                 | Houlding, David, Voice XML and the Voice-Driven Internet, Dr. Dobb's Journal, April 2001  |                             |                          |          |                            |
| EXAMINER<br>MAS   | m ASiddiqui     |   | DATE CONSIDERED<br>10/08/03 |                          |          |                            |
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## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

PATENT & TRADEMARK OFFICE  
SEP 04 2001  
JC97ATTY DOCKET NO.  
ELZK-004SERIAL NO.  
09/815,726

John Kroeker et al.

FILING

March 23, 2001

GROUP

2661

## U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE     | NAME              | CLASS   | SUBCLASS | FILING DATE IF APPROPRIATE                        |
|-------------------|-----------------|----------|-------------------|---|----------|---|
| MAS               | 5,687,212       | 11/11/97 | Kinser Jr. et al. |   |          |   |
|                   | 5,864,614       | 1/26/99  | Farris et al.     |   |          | RECEIVED<br>SEP 06 2001<br>Technology Center 2600 |
|                   | 5,083,268       | 1/21/92  | Hemphill et al.   |   |          |   |
|                   | 5,457,768       | 10/10/95 | Tsuboi et al.     |   |          |   |
|                   | 5,687,384       | 11/11/97 | Nagase            |   |          |   |
|                   | 5,729,656       | 3/17/98  | Nahamoo et al.    |   |          |   |
| MAS               | 5,748,841       | 5/5/98   | Morin et al.      | RECEIVED<br>SEP 10 2001<br>Technology Center 2100 |          |   |
|                   |                 |          |                   |   |          |   |
|                   |                 |          |                   |   |          |   |
|                   |                 |          |                   |   |          |   |
|                   |                 |          |                   |   |          |   |
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## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|-----------------|------|---------|-------|----------|-------------|----|
|  |                 |      |         |       |          | YES         | NO |
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|  |                 |      |         |       |          |             |    |
|  |                 |      |         |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |   |
|-----|---|
| MAS | Atlas, L. et al., Quadratic Detectors for General Nonlinear Analysis of Speech, ICASSP, Vol. 2, pp 9-12, 1992                   |
| MAS | Okawa, S. et al., Estimation of Statistical Phoneme Center Considering Phonemic Environments, ICSLP, Vol. 2, pp 1069-1072, 1996 |

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SEP 04 2001

Docket Number (Optional)

ELZK-004

Application Number

09/815,726

Applicant(s)

John Kroeker et al.

Filing Date

March 23, 2001

Group Art Unit

2661

\*EXAMINER  
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Weber, K., Multiple Timescale Feature Combination Towards Robust Speech Recognition, IDIAP Research Report, Dalle Molle Institute for Perceptual Artificial Intelligence, Valais, Switzerland, September 2000

Sharma, S. et al., Feature Extraction Using Non-Linear Transformation for Robust Speech Recognition on the Aurora Database, IEEE, 1117-1120, 2000

Wu, S. et al., Incorporating Information from Syllable-Length Time Scales in Automatic Speech Recognition, International Computer Science Institute, Berkeley, CA

Pols, L., Flexible, Robust, and Efficient Human Speech Recognition, Institute of Phonetic Sciences, Proceedings 21, 1-10, 1997

Bourlard, H. et al., Towards Increasing Speech Recognition Error Rates, Speech Communication 18, 205-231, 1996

Kingsbury, B., Perceptually Inspired Signal-processing Strategies for Robust Speech Recognition in Reverberant Environments, dissertation, University of California Berkeley, 1998

Sharma, S., Multi-Stream Approach to Robust Speech Recognition, dissertation, Oregon Graduate Institute of Science and Technology, 1999

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